

JOURNAL OF ANATOMY

CONDUCTED ON BEHALF OF THE ANATOMICAL SOCIETY
OF GREAT BRITAIN AND IRELAND BY

R. E. COUPLAND

T. W. GLENISTER

E. G. GRAY

F. R. JOHNSON

R. M. H. McMINN

A. R. MUIR

G. J. ROMANES

R. J. SCOTHORNE

J. W. SMITH

D. C. SINCLAIR (EDITOR)

QL
801
J7

VOLUME 112

MAY-SEPTEMBER 1972

CAMBRIDGE
AT THE UNIVERSITY PRESS
1972

PUBLISHED BY
THE SYNDICS OF THE CAMBRIDGE UNIVERSITY PRESS

Bentley House, 200 Euston Road, London, N.W.1
American Branch: 32 East 57th Street, New York, N.Y. 10022

© Anatomical Society of Great Britain and Ireland, 1972

Printed in Great Britain at the University Printing House, Cambridge

Contents

PART 1 – MAY 1972

	PAGE
Fine structure of goldfish xanthophore. By I. K. TAKEUCHI and T. KAJISHIMA	1
Longitudinal overgrowth of chicken radius. By R. G. CRILLY	11
The influence of castration on fracture repair in the penile bone of the rat. By W. A. BERESFORD	19
The effect of growth and of fasting on the number of villi and crypts in the small intestine of the albino rat. By RUFUS M. CLARKE	27
The distribution of brown adipose tissue in the human. By JULIET M. HEATON	35
Histochemical fibre types in the mammalian diaphragm. By A. S. DAVIES and H. M. GUNN	41
Muscle spindle innervation in man. By M. SWASH and KATHLEEN P. FOX . .	61
Differences in the manner of autonomic innervation of the muscle layers of the guinea-pig ductus deferens. By J. A. GOSLING and J. S. DIXON	81
Encapsulated nerve endings in hairy skin. By F. O. CUNNINGHAM and M. J. T. FITZGERALD	93
A quantitative study of anterior root fibres during early myelination. By JOHN P. FRAHER	99
Morphology of the retina of the sea-snake, <i>Pelamis platurus</i> . By E. HIBBARD and J. LAVERGNE	125
Parathyroid vessel innervation: an ultrastructural study. By E. YEGHIAYAN, J. M. ROJO-ORTEGA and J. GENEST	137
REVIEWS	143
BOOKS RECEIVED	149

PART 2 – JULY 1972

Histological and topographical studies of 'germinal centres' of rabbit lymph node. By SIN YOKE MIN	151
The vomeronasal organ in tree shrew and slow loris. By S. K. LOO and R. KANAGASUNTERAM	165
Some observations on the innervation of the striated muscle in the mouse oesophagus – an electron microscope study. By DAYA D. SAMARASINGHE	173
Vascularity of the environs of the human pharyngeal hypophysis as a possible indication of the mechanism of its control. By PHILOMENA McGRATH . .	185
The inclusion bodies in granular pneumonocytes of hamster lung: a combined cytochemical and ultrastructural study. By C. MEBAN	195
The postnatal growth of the capsule of the human crystalline lens. By R. F. FISHER and BARBARA E. PETTET	207

	PAGE
The sex chromatin marker in the endothelium of paraffin-embedded renal and cardiac tissue. By R. A. SINCLAIR	215
The hormonal induction of an os clitoridis in the neonatal and adult rat. By A. GLUCKSMANN and CORA P. CHERRY	223
The Harderian glands of the domestic fowl. III. Ultrastructure. By B. ROTHWELL, P. A. L. WIGHT, R. B. BURNS and G. M. MACKENZIE	233
The intrinsic innervation of the reproductive tract of the male fowl (<i>Gallus domesticus</i>). A histochemical and fine structural study. By M. D. TINGARI and P. E. LAKE	251
Histochemical localization of glycogen, mucopolysaccharides, some oxidative enzymes and cholinesterases in the reproductive tract of the male fowl (<i>Gallus domesticus</i>) By M. D. TINGARI and P. E. LAKE	273
The ultrastructural characteristics of the eosinophil granules in six species of domestic bird. By M. H. MAXWELL and W. G. SILLER	289
In Memoriam. GEOFFREY THOMAS ASHLEY	305

PART 3 – SEPTEMBER 1972

A note on some peculiar membrane structures in NGF-treated sensory neuroblasts. By LOUISE A. BLOOD	309
Some quantitative effects of nerve growth factor on dorsal root ganglia of chick embryos in culture. By LOUISE A. BLOOD	315
Some 'intermediate' cell forms in the nasopharyngeal epithelium of <i>Macaca fascicularis</i> . By K. LEELA and R. KANAGASUNTERAM	329
Myoepithelium in the prelactating and lactating mammary glands of the rat. By CAROLYN J. P. RADNOR	337
Myoepithelium in involuting mammary glands of the rat. By CAROLYN J. P. RADNOR	355
Rabbit heart nodal tissue, sinuatrial ring bundle and atrioventricular connexions identified as a neuromuscular system. By F. BOJSEN-MØLLER and J. TRANUM-JENSEN	367
The fine structure of microfibrils and microtubules in macrophages and other lymphoreticular cells in relation to cytoplasmic movement. By IAN CARR	383
The internal surface area of the adult human lung. By P. S. HASLETON	391
Morphological studies of fibrocytes in connective tissue undergoing rapid remodelling. By A. R. TEN CATE	401
Calcification and ossification of fibrocartilage in the attachment of the patellar ligament in the rat. By M. H. BADI	415
The fate of skin allografts in the rabbit uterus. By J. M. MCLEAN and R. J. SCOTHORNE	423

Contents

v

PAGE

Cell replacement and differentiation in transitional epithelium: a histological and autoradiographic study of the guinea-pig bladder and ureter. By B. F. MARTIN	433
A method for the study of jaw growth using a computer-based three-dimensional recording technique. By P. G. SULLIVAN	457

